Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMANT BY APPLICANT

DEC 2 4 2002

(Sheet,

many sheets as necessary)

of 2

Ì	Complete if Known				
1	Application Number	10/089531			
	Filing Date	March 27, 2002			
	First Named Inventor	Roland Thewes			
	Group Art Unit	2818			
	Examiner Name				
	Attorney Docket Number	32226.19			

			U.S. PATENT D	OCUMENTS		
Examiner	Cite	Document Number	Publication Date MM-DD-YY'/Y	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear 知识。Curs	
Initials *	No.'	Number - Kind Code ² (if known)		Figures Appear 946 - Cur		
DL		US- 5 864 498	01-26-1999	High Density Circuits		
		US- 5 734 605	03-31-1998	Motorola, Inc.		
		US- 5 930 164	07-27-1999	Motorola, Inc.		
PL		US- 5 585 986	12-17-1996	International Business Machines Corp.		
		US-				
		US-			in C	
		US-				
		US-				
		US-				
		US-				
		US-				
		US-			<u> </u>	
		US-				
		US-				
		US-			2300	
		US-			ļ	
		US-				
		US-				
		US-				
		US-				

FOREIGN PATENT DOCUMENTS							
Examiner	Cite	Foreign Patent Document	Publication	Name of Patentee or Applicant of Cited	Pages, Columns, Lines, Where Relevant		
Initials*		Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>if known</i>)	Date MM-DD-YYYY	Document	Passages or Relevant Figures Appear	T ⁶	

Examiner Signature	to 1 Fm	Date Considered	5/03

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Potents in the Potents and Po Patents, Washington, DC 20231.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

7			

PTO/SB/08B(10-01)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 10/089531 March 27, 2002 Filing Date Roland Thewes First Named Inventor 2818 Group Art Unit Examiner Name

Complete if Known

(use as many sheets as necessary)

of

Attorney Docket Number 32226.19

OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS					
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2		
pi	1	JEONG W - C ET AL: "A NEW MULTILAYERED STRUCTURE FOR MULTILEVEL MAGNETORESISTIVE RANDOM ACCESS MEMORY (MRAM) CELL" IEEE TRANSACTIONS ON MAGNETICS, US, ITEE INC. NEW YORK, Bd 34, Nr. 4, PART 01 Juli 1 498 (1998-07), Seiten 1059-1071, X:0000833048 ISSN: 0018-9464			
þι	2	RUILI ZHANG ET AL: "Demonstration of a four state sensing scheme for a single Pseudo-Spin Valve GMR bit" DIGESTS OF INTERMAG 99, 1999 IEEE INTERNATIONAL MAGNETICS CONFERENCE, KYONGJU, SOUTH KOREA, 18-21 MAY 1999, Bd 35, Nr. 5, pt. 1, Seiten 2829-2831, XP0002154844, IEEE Transactions on Magnetics, Sept. 1999, IEEE, USA, ISSN: 0018-9464			

Examiner Signature	617	Date Considered	c/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.